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1. Document ID: US 6855394 B2

AB: A magnetic recording medium is disclosed, comprising a support having provided thereon a substantially nonmagnetic lower layer by coating a lower layer coating solution comprising a nonmagnetic powder dispersed in a binder and drying, and a layer having a thickness of from 0.01 to 0.15 .mu.m by coating a magnetic layer coating solution comprising a ferromagnetic metal powder or a hexagonal ferrite powder dispersed in a binder, wherein the magnetic layer contains diamond particles having an average particle size of from 1/5 to 2 times the thickness of the magnetic layer in an amount of from 0.1 to 5.0 mass % based on the ferromagnetic metal powder.

2. Document ID: US 6797373 B2

AB: Provided is a magnetic recording medium ensuring an adequate S/N even in high density magnetic recording, and tending not to electrostatically damage MR heads during recording and reproduction employing MR heads. A magnetic recording medium comprising a nonmagnetic layer comprising a nonmagnetic powder and a binder and a magnetic layer comprising a ferromagnetic metal powder or a ferromagnetic hexagonal ferrite powder and a binder in this order on at least one side of a nonmagnetic support, wherein said nonmagnetic layer comprises 10 to 50 mass parts of carbon black with a mean particle diameter of 10 to 30 nm per 100 mass parts of said nonmagnetic powder, said magnetic layer has a thickness equal to or less than 0.2 .mu.m, the standard deviation b of the average intensity a of elements due to said ferromagnetic powder as determined by electron-beam microanalysis is 0.03.ltoreq.b/a.ltoreq.0.4, and said magnetic layer has a center surface average roughness Ra equal to or less than 5 nm and a ten-point average roughness Rz equal to or less than 50 nm.

3. Document ID: US 6713149 B2

AB: A magnetic recording medium is disclosed, comprising a support having provided thereon a magnetic layer containing a ferromagnetic powder

and a binder as main components, wherein the ferromagnetic powder is a hexagonal ferrite powder having an average tabular diameter of from 15 to 40 nm, the perpendicular factor of squareness ratio SQ of the magnetic layer is from 0.1 to 0.55, the specific surface area and the total pore volume per weight of the magnetic layer by a nitrogen adsorption method are from 0.1 to 50 m.sup.2 /g and from 0.001 to 1 ml/g, respectively, and the magnetic layer thickness is from 0.02 to 0.3 .mu.m.

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4. Document ID: US 6703106 B2

AB: A magnetic recording and reproducing method comprising recording and reproducing a signal with a magnetic head in a track width (A) of less than 5 .mu.m on a magnetic recording medium comprising a support having provided thereon a magnetic layer containing at least a ferromagnetic powder, an abrasive and a binder, wherein the average longer size (B) of the abrasive particle(s) which are present on the magnetic layer surface is 1/3 or less of the track width (A).

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5. Document ID: US 6527823 B2

AB: To provide a powder for dust cores capable of improving magnetic properties such as magnetic permeability in a molded compacted powder magnetic core and mechanical properties such as size precision of the molded compacted powder magnetic core and radial crushing strength and, a dust core using the powder. A powder for a dust core contains a ferromagnetic powder, an insulating material containing silicone resin and/or phenol resin, and a lubricant, wherein the lubricant contains aluminum stearate, and a dust core using the powder for a dust core.

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